Santa Rosa County

Sprinkler Plan Review Submittal Checklist						
Proje	ect Name	Project Address				
-	tractor Name	Contractor Address				
	e License No.	Expiration Date				
	•					
	sification of Oc	•				
□N	IFPA 13, 1999					
	□Light Haza					
		☐ Group I ☐ Group I ☐ Group II				
	. 01 :					
	torage Classifi					
		in detail, attach sheets if needed) SeeNFPA 13:Chapter 1 and Chapter 7.				
		lans shall be submitted for approval before any equipment is installed or rem				
		proved plans, any change, or tenant improvement will require revision and re				
		val will be given. Working plans shall be drawn to an indicated scale on sheet				
	, with a pian o ie design of th	of each system, or floor area, and shall show these items from the following li	st th	at pe	rtains	
	_					
<u> </u>	ulure to con	nplete this form entirely or accurately will result in rejection of	sub	mitt	a!!	
	Item	•	Yes	No	N/A	
		nt submittal been provided and does it contain all information on all equipment to b	е			
1		m and/or building? The working plan shall include manufacturer's installation rany specifically listed equipment, including descriptions, applications and				
		any sprinklers, devices, piping, or fittings.				
		sponse sprinklers used throughout? Specify type.				
		A. Is the system Wet?				
		B. □Light or □Ordinary Hazard Occupancy? C. 20 ft. Maximum ceiling height?				
		D. Total number of sprinklers in design area at least 5?				
		E. Has a 30% area increase been applied for dry system?See 7-2.3.2.6				
2		F. Has a 30% area increase per7-2.3.2.5 been applied on sloped ceilings with a				
		pitch exceeding 2 inches on 12 inches? Note and show all pitched roof areas on				
		drawings.				
		G. Has figure 7-2.3.2.4 been applied? If yes, state ceiling height and permitted				
		percent reduction to design area. Also include any increase from item E if				
		applicable to design.				
		torage over 12'-0 or do any specific rulings apply? (Specify in detail, attach sheets	if			
	needed). F.M., I.R.I., etc. NOTE: Any specific ruling shall as a minimum comply with NFPA					
	standards.					
A. Show racks and high pile storage details and head placement.						
		B. Show cross section(s) as required for clarity. Specify in detail.				
3	l	C. Does the building contain any materials classified as hazardous? Show				

WHERE these materials will be stored and HOW it will be stored, rack, palletized,

D. Have MSDS sheets been provided for all hazardous materials to be stored?

E. Are there any materials stored in which water cannot be used as an

Is the protection area per sprinkler within the requirements of the appropriate hazard classification and head listing? See5-6.2.2 for SSP and SSU sprinklers. See5-7.2.2 for standard sidewall sprinklers. See 5-7.2.2 for EC heads. Be specific, attach manufacturers data for any specific

extinguishing agent? Be specific, attach sheets if needed.

bin box, shelf, etc.

listings.

	Item		Yes	No	N/A	
	Does the Minimum and Maximum sprinkler spacing requiren	ents adhere to NFPA 13 and				
E	specific head listing requirements? See5-6 for SSP and SSU	sprinklers. See 5-7.3 for sidewall			1	
5	sprinklers. See 5-8.2 for EC heads. Also see 5-5. Attach man	ufacturers data for any specific			1	
	listings.				1	
6	Are end sprinklers and end branch line sprinklers within the	allowable distances from walls? See				
6	5-6.3.2 for SSP and SSU. See 5-7.3.2 for sidewall heads. Se				1	
7	Does head spacing comply with requirements for the constru	ction type, Obstructed or				
7	Unobstructed, (be specific, attach sheets if needed)? See1-4	• •			1	
	Are sprinklers positioned within allowable distances to ceiling					
8	5-7.4 for standard sidewall sprinklers. See5-8.4 for EC heads	s. Also see 5-5. NOTE: Show			1	
	cross section as required for clarity.					
	Are clearances to any obstructions, such as soffits, beams, I	ght fixtures, ceiling slope, etc.			1	
	properly allowed for? Show cross section as required for cla				1	
	dotted lines along with appropriate details drawn to scaleSee	NFPA 13 chapter 5.			1	
9	A. Is head placement clearly indicated in relati	on to beams and ceilings?				
	B. Are sloped ceilings clearly indicated on dra	vings with the slope indicated?				
	C. Is there a note on drawings that reads."Ceil	ngs are flat unless noted				
	otherwise".?	Š			Ì	
10	Are there any combustible concealed spaces within the build	ing or system area 9 -13.1.				
	Are any questionable small enclosures in areas in which no	sprinklers are to be installed clearly				
11	indicated on the drawings? SeeNFPA 13 Chapter 5.	,			Ì	
	Has a separate reflected ceiling plan been provided which co	ontains no piping or hanger details				
	and contains proper information such as suspended ceiling of				1	
12			;		1	
	diffuser and return air grill locations, sprinkler head locations	, etc.? (See item number 9 for slope			1	
	ceiling instructions.)				Ì	
13	Has the location of any and all firewalls been shown?					
					Ì	
14	Has the location of partitions and walls which do not extend		ו ו		İ	
	including height in relation to ceiling? Provide cross section					
15	Are floor openings such as escalator openings properly prote	ected and shown on plan view?			Ì	
	Provide cross section as required for clarity.					
	Has the occupancy of each area and/or room been properly noted?					
17	Has the square footage of all area/rooms been properly noted?					
	If the small room rule has been used, have areas/rooms bee	n properly noted and do they meet			Ì	
	all of the following conditions? See1-4.2 and 5-6.3.2.1.				l	
18	A. Light Hazard Occupancy?					
	B. Unobstructed construction?					
	C. Floor area of 800 square feet or less??					
19	Has a full height cross section or schematic diagram, includi	ng ceiling construction been			1	
	included?					
20						
	If heat is not provided, is proper system provided to protect s				i I	
21	room for dry pipe systems)? NOTE: Dry sprinkler systems should only be installed where heat is				i I	
	not adequate to prevent freezing. Show all freeze areas on drawings and indicate how freezing will be prevented				1	
	will be prevented Are there any exterior docks, canonics, or platforms that will require enrighter protection? Soft					
22	Are there any exterior docks, canopies, or platforms that will require sprinkler protection? Se5-13.8.				Í	
	If any antifreeze systems are being installed are the following	conditions being met? Se4-5				
23	A le the type and quantity of antifreeze indica	· · · · · · · · · · · · · · · · · · ·				
	B. Is antifreeze loop detail shown?					
	C. Is Glycerin USP being used in CPVC piping	?				
	, , ,					

	Item		Yes	No	N/A	
	Are elevators p	protected in accordance with NFPA 13 and any Local or State guidelines? Se6-				
	13.6					
		A. Is there any sprinkler piping in the machine room or hoistway other than the				
24	_	piping feeding a head?				
24		3. Have indicating type shut off valves for each branch line been provided in an accessible location outside of machine rooms or hoistways?				
		C. Will an approved method be provided to automatically disconnect the main line				
		power supply to the affected elevator(s) prior to the application of water?				
		D. Has the proper temperature sprinklers been provided?				
		rinkler piping located in electrical rooms that does not directly feed a sprinkler				
25						
	Į.	A. Is any sprinkler piping routed above electrical panels?				
	Has a proper s	ite plan been provided?				
	F	A. Does site plan show size of city main on street, and whether dead end or				
		circulating? If dead end, is distance shown to nearest circulation main?				
		B. Have existing underground main sizes, type, and location been properly noted				
26	l —	and shown?				
		C. Have <i>new</i> underground main sizes, type, location, and connection been				
		oroperly noted and shown? D. Has the location of new valves, backflow preventers, valve pits, meters, and				
		FDCs been indicated? Specify manufacturer, size, and type of all valves on				
		drawings. Include equipment submittals.				
		results been properly provided to include the date and time, static psi, residual ps	i.			
07		nd elevations at source and building been clearly indicated??	,			
27		A. Have other sources of water supply, such as a fire pump, tank, or reservoir				
		peen duly noted and considered?				
		be, finish, and nominal orifice size of all sprinklers used on system been proper				
		wn on piping and/or reflected ceiling plan.? Equipment submittal shall include data	ì			
		kler used on system. Note: Systems with any special application sprinklers or nklers shall include all listing information, limitations, restrictions, flow (gpm), and				
	•	shall be either noted on plans or have manufacturer's data sheets attached to all				
28	sets submitted.					
		A. Are sprinklers the proper temperature rating for the minimum expected ceiling				
	t	emperatures and proximity to unit heaters, sky lights, HVAC diffusers, light				
		ixtures, etc. accounted for? See5-3.1.4.				
		3. Total number of sprinklers on each riser per floor?			-	
29		ea per System indicated on drawings?				
30	Is the make, type, model, and size of alarm and dry valves been indicated on drawings and included in the equipment submittal?					
		• •				
		nber of sprinklers on each dry pipe system, pre-action system, deluge system, pipe/pre-action system indicated? See4-3 and 4-4				
31		A. Is the total capacity of dry systems indicated? See4-2.3.				
٠.		B. Does the system require a quick opening device? See4-2.4.				
		C. Does the system volume fall within specified limits? See4-2.3.1.				
32	Are the types of	of pipe and schedule indicated?				
33	Will any pipe be required to be bent? If so, submit equipment data with tolerances. Se€-3.6					
34	Are all pipe joining techniques correct for type and schedule used? See-6					
35						
	. .	special piping materials to be used, such as galvanized pipe, threadable thinwall,				
36		e, etc.? Be specific and include submittal data. See3-3.5				
37		orrosion protection be required for any piping located within system area? Be				
	specific. See 5-	· · · · · · · · · · · · · · · · · · ·				
	•	Dana 2				

	Item	Yes	No	N/A
38	Are nominal pipe sizes and cut lengths of pipe or center-center dimensions shown?			
39	Has the location of all riser nipples and drop nipples been provided?			
40	Are any specialty fittings being utilized such as Press-fit, etc.? Include submittal data.			
41	Has the type and location of hangers, sleeves, braces, and methods of securing pipe been provided? Include legible details on drawings of each type.? Be specific. See-1.			
42	Are locations of all control valves, check valves, drainpipes, and test connections clearly indicate on plans?	:d		
43	Are all system control valves properly supervised per all applicable codes?			
44	Has the system test connection been properly located?			
45	Are proper system drain connections, both main and auxiliary, provided and properly sized? Sec 5-14.2.4			
46	Is the discharge for drains and test connections piped to an acceptable and approved area that will not cause water damage? See5-14.2.4.			
47	Is the type and location of alarm(s) indicated on the drawings?			
48	Is the type and location of the fire department connection shown in detail and comply with the requirements of 3-9 and 5-15.2.1?			
49	If a relief valve is required, is it provided and properly located? Sed-1.2.			
	Is the size and location of hose outlets and, hand hose, and related equipment provided? Submittal data required for all pressure reducing valves including maximum inlet pressure and outlet pressure at each valve. See5-15.5.1.2.			
50	A. Are standpipes provided in accordance with The Standard Building Code and NFPA 14?			
	B. Is a permanent drain riser installed to test pressure regulating devices accordance with NFPA 14 5-11?			
	C. Are standpipes calculated in accordance with all applicable codes?			
51	Is a graphic representation of scale shown on the drawing? On each sheet if multiple sheets?			
52	Have provisions for flushing been provided? See5-13.17.			
53	When the equipment to be installed as an addition to an existing system, is enough of the existir system shown on the plans to make all conditions clear?	g		
	Is a fire pump provided?			
	A. Will the fire pump meet the system demand without using more than 100% of the rated capacity? Example: If there are 2 standpipes to calculate (500gpm+250gpm), is the pump rated at 750 gpm from the manufacturer? Provide submittal data.			
	B. Is the Suction piping sized perNFPA 20 Table 2-20?.			
53	C. Is a main relief valve provided and discharge piping sized peNFPA 20 Table 2-20? If a MRV is not provided, submit calculations to show that maximum static pressure will not exceed 175 psi.			
	D. Is the test header sized correctly with the proper number of test valves? See NFPA 20 Table 2-20.			
	E. Is the FDC on the discharge side of the fire pump? SeeNFPA 13 5-15.2.3.6.			
	F. Are all control valves on the fire pump supervised?			
54	Is the system(s) calculated per NFPA 13?			
	A. Is the information required on the hydraulic data plate indicated on the calculations or on the plans?			
	B. Do hydraulic reference points on the drawings correspond with comparable reference points on the hydraulic calculations?			
	C. Has the minimum rate of water application(density), the design area of water application, in rack sprinkler demand, and the water required for hose streams be inside and out been calculated?			
	D. Have relative elevations of sprinklers, junction points, and supply or reference points been indicated?			

	Item		Yes	No	N/A		
		E. If the room design method is used, are all of the conditions ir 7-2.3.3 met?					
54		F. Has the proper pressure loss for any backflow preventers or meters been					
		allowed for in the calculations?					
		hydraulic information provided? Note: Hydraulic calculations shall include a					
	summary she	et, detailed work sheets, and a graph sheet peChapter 7.					
		A. Is the area per sprinkler indicated?					
		B. When area/design method is used, the area of sprinkler operation(the					
		hydraulically most demanding area) shall be based on floor area. The designer					
		must graphically show this. For example, a 1500 square feet area of sprinkler					
		operation must show 1500 square feet of floor area. If this is not shown to the			i		
		satisfaction of the plan reviewer, calculations and plans will be rejected for revision	J		i		
		and re-submittal. Is the area of sprinkler operation shall be properly sized and			i		
		located?					
		C. Has the correct K factor been provided? Note: If sprinklers do not attach directles a branchling and a ricer or drap pipple is used the K factor shall be adjusted					
55		to a branchline and a riser or drop nipple is used, the K factor shall be adjusted					
		accordingly.					
		D. Has the minimum flow and discharge been provided? Note: Where area per sprinkler varies, such as in a partitioned office area, the area per sprinkler shall be			i		
		noted for all sprinklers in the area of operation. Keep in mind that the area of			i		
		sprinkler operation (the hydraulically most demanding area) must reflect what is			i		
		supposed to be the most demanding area. For example, a system with an area of					
		sprinkler discharge with a light hazard density which has all sprinklers covering no					
		more than 150 square feet per head; however an observation of the entire system			i		
		reveals sprinklers that area are spaced from 200 to 225 square feet. This					
		increases pressure and flow; in other words, most demanding does not necessaril	V				
		mean the most remote. If any questions exist, provide additional calculations			i		
		to prove the hydraulically most demanding area			i		
		E. Does pipe sizing in the most hydraulically demanding area reflect sizing					
		throughout the remainder of the system? If not, provide proof calcs for the areas					
56		with different sizing.			i		
		F. Are any gritted systems in full compliance with NFPA 13: 6-4.4.2.					
		G. Is there a minimum 5 psi safety factor for all systems?					
57	Is complete sprinkler protection provided?						
	Are there any deviations from referenced NEDA Standards? Note: If yes, describe in detail						
58	(attach sheets if needed).						
60	Will all mater	rials installed be NEW and UL or FM listed for fire service?					

As sprinkler plan submitter, I hereby acknowledge that all information provided is to the best of my knowledge correct and accurate. As the person making application for permit, I hereby acknowledge all requirements and inspections contained therein. By my receiving, I also acknowledge that any changes or revisions to approved plans will require revision and resubmittal as required. Failure to comply with the provisions of issued permit could result in loss of permit an unnecessary delays.

Signature	 Title	
Company	 Date	